PATENT COOPERATION TREATY

•	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF ELECTION (PCT Rule 61.2)	Commissioner US Department of Commerce United States Patent and Trademark Office, PCT 2011 South Clark Place Room CP2/5C24 Arlington, VA 22202 ETATS-UNIS D'AMERIQUE
Date of mailing (day/month/year) 15 November 2000 (15.11.00)	in its capacity as elected Office
International application No. PCT/US00/11304	Applicant's or agent's file reference CM2094/6M
International filing date (day/month/year) 27 April 2000 (27.04.00)	Priority date (day/month/year) 28 April 1999 (28.04.99)
Applicant	
ASHTON, Kevin, John	
The designated Office is hereby notified of its election made in the demand filed with the International Preliminary 06 October 20 in a notice effecting later election filed with the International Preliminary 06 October 20 in a notice effecting later election filed with the International Preliminary 06 October 20 in a notice effecting later election filed with the International Preliminary 06 October 20 in a notice effecting later election filed with the International Preliminary 06 October 20 in a notice effecting later election filed with the International Preliminary 06 October 20 in a notice effecting later election filed with the International Preliminary 06 October 20 in a notice effecting later election filed with the International Preliminary 06 October 20 in a notice effecting later election filed with the International Preliminary 06 October 20 in a notice effecting later election filed with the International Preliminary 06 October 20 in a notice effecting later election filed with the International Preliminary 06 October 20 in a notice effecting later election filed with the International Preliminary 06 October 20 in a notice effecting later election filed with the International Preliminary 06 October 20 in a notice effecting later election filed with the International Preliminary 06 October 20 in a notice effecting later election filed with the International Preliminary 06 in a notice effecting later election filed with the International Preliminary 06 in a notice effecting later election filed with the International Preliminary 06 in a notice effecting later election filed with the International Preliminary 06 in a notice effecting later election filed with the International Preliminary 06 in a notice effecting later election filed with the International Preliminary 16 in a notice effecting later election filed with the International Preliminary 16 in a notice effecting later election filed with the International Preliminary 16 in a notice election filed with the International Preliminary 16 in a	v Examining Authority on: 00 (06.10.00) national Bureau on:
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Claudio Borton Telephone No.: (41, 22) 238,83,38
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

Form PCT/IB/331 (July 1992)

US0011304



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	(Form PCT/ISA/2)	f Transmittal of International Search Report 20) as well as, where applicable, item 5 below.
CM2094/6M	ACTION	
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 00/11304	27/04/2000	28/04/1999
Applicant		
THE PROCTER & GAMBLE COMP	A NIV	
THE PROCTER & GAMBLE COM	ANI	
This International Search Report has bee according to Article 18. A copy is being tr	n prepared by this International Searching Auth ansmitted to the International Bureau.	nority and is transmitted to the applicant
This International Search Report consists It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	report.
Basis of the report		
 a. With regard to the language, the language in which it was filed, un 	international search was carried out on the bas less otherwise indicated under this item.	sis of the international application in the
the international search v Authority (Rule 23.1(b)).	as carried out on the basis of a translation of t	ne international application furnished to this
b. With regard to any nucleotIde ar was carried out on the basis of th contained in the internati		ternational application, the international search
1 = '	o this Authority in written form.	
	o this Authority in computer readble form.	
	bsequently furnished written sequence listing das filed has been furnished.	oes not go beyond the disclosure in the
• •		s identical to the written sequence listing has been
2. Certain claims were fou	ind unsearchable (See Box I).	
3. Unity of invention is lac	king (see Box II).	
4. With regard to the title ,		•
X the text is approved as s	ubmitted by the applicant.	•
the text has been established	shed by this Authority to read as follows:	
5. With regard to the abstract,		
I	ubmitted by the applicant.	
the text has been establic	shed, according to Rule 38.2(b), by this Authori e date of mailing of this international search rep	ty as it appears in Box III. The applicant may, oort, submit comments to this Authority.
6. The figure of the drawings to be pub		1
as suggested by the app	licant.	None of the figures.
because the applicant fa		
because this figure bette	r characterizes the invention.	

PATENT COOPERATION TREATY

PCT

REC'D 2 1 JUN 2001

INTERNATIONAL PRELIMINARY EXAMINATION REPORTED

(PCT Article 36 and Rule 70)



Applicant's	or ag	ent's file reference	T			•
CM2094			FOR FURTHER A	CTION		ation of Transmittal of International Examination Report (Form PCT/IPEA/416)
Internationa	al app	lication No.	International filing date	(day/month	v/year)	Priority date (day/month/year)
PCT/USO	00/11	304	27/04/2000			28/04/1999
Internationa G06K17/		ent Classification (IPC) or na	tional classification and IF	PC .		
THE PRO	ОСТЕ	ER & GAMBLE COMP	ANY			
1. This in and is	nterna trans	ational preliminary exami smitted to the applicant a	ination report has beer according to Article 36.	prepared	by this Inte	rnational Preliminary Examining Authority
2. This F	REPO	RT consists of a total of	8 sheets, including the	is cover sh	neet.	
be	een a	port is also accompanied mended and are the bas ule 70.16 and Section 60	is for this report and/o	r sheets co	ontaining red	n, claims and/or drawings which have ctifications made before this Authority e PCT).
These	anne	exes consist of a total of	sheets.			
3. This re	eport	contains indications relat	ting to the following ite	ms:		
ī	Ø	Basis of the report				
В		Priority				
111	\boxtimes	Non-establishment of op-	pinion with regard to no	ovelty, inve	entive step a	and industrial applicability
IV		Lack of unity of invention				.,
V	×	Reasoned statement un citations and explanation	der Article 35(2) with r	egard to n ement	ovelty, inver	ntive step or industrial applicability;
VI		Certain documents cite	d			
VII		Certain defects in the inf	ternational application			
VIII	×	Certain observations on	the international appli	cation		
Date of subn	nissio	n of the demand		Date of co	ompletion of th	nis report
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				l resebucin	e No. +49 89 2	2000 2020



I. Basis of the report

1.	the an	e receiving Office in	nents of the international application (Replacement sheets which have been furnished to response to an invitation under Article 14 are referred to in this report as "originally filed" this report since they do not contain amendments (Rules 70.16 and 70.17)):
	1-3	3	as originally filed
	Cla	aims, No.:	
	1-1	1	as originally filed
	Dra	awings, sheets:	
	1/5	-5/5	as originally filed
2.	Wit lan	h regard to the lang guage in which the i	uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.
	The	ese elements were a	vailable or furnished to this Authority in the following language: , which is:
		the language of a t	ranslation furnished for the purposes of the international search (under Rule 23.1(b)).
			blication of the international application (under Rule 48.3(b)).
		the language of a t 55.2 and/or 55.3).	ranslation furnished for the purposes of international preliminary examination (under Rule
3.	Witl inte	h regard to any nuc l rnational preliminan	leotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the int	ernational application in written form.
		filed together with t	he international application in computer readable form.
		furnished subseque	ently to this Authority in written form.
		furnished subseque	ently to this Authority in computer readable form.
		The statement that the international ap	the subsequently furnished written sequence listing does not go beyond the disclosure in plication as filed has been furnished.
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequence nished.
4.	The	amendments have	resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:



		the drawings,	sheets:
5.		This report has been considered to go bey	established as if (some of) the amendments had not been made, since they have been rond the disclosure as filed (Rule 70.2(c)):
		(Any replacement sh report.)	eet containing such amendments must be referred to under item 1 and annexed to this
6.	Add	ditional observations, it	necessary:
111.	. Nor	n-establishment of or	pinion with regard to novelty, inventive step and industrial applicability
1.	The obv	e questions whether the ious), or to be industria the entire internationa	e claimed invention appears to be novel, to involve an inventive step (to be non- ally applicable have not been examined in respect of:
	×	claims Nos. 3.	
be	caus	se:	
		the said international not require an interna	application, or the said claims Nos. relate to the following subject matter which does tional preliminary examination (specify):
	⊠	the description, claims that no meaningful op see separate sheet	s or drawings (indicate particular elements below) or said claims Nos. 3 are so unclear inion could be formed (specify):
		the claims, or said cla could be formed.	ims Nos. are so inadequately supported by the description that no meaningful opinion
		no international searc	h report has been established for the said claims Nos
2.	and/	eaningful international or amino acid sequend ructions:	preliminary examination cannot be carried out due to the failure of the nucleotide ce listing to comply with the standard provided for in Annex C of the Administrative
		the written form has n	ot been furnished or does not comply with the standard.
			e form has not been furnished or does not comply with the standard.
V.	Reas citat	soned statement und ions and explanation	er Article 35(2) with regard to novelty, inventive step or industrial applicability; as supporting such statement
1.	State	ement	

Novelty (N)

Yes: Claims 8,11



International application No. PCT/US00/11304

No:

Claims 1,2,4-7,9,10

Inventive step (IS)

Yes:

Claims

Claims 1,2,4-11

Industrial applicability (IA)

No: Yes: No:

Claims 1,2,4-11

Claims

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

- 1. Claim 3 defines a storage system in which the sensor is arranged to receive signals from a transponder comprising a multi-bit magnetic tag. However, in the embodiment of the present application, the sensor corresponds to the antenna 3 which is designed for receiving radio frequency signals. Implicitly the antenna 3 detects a changing electric field. It is not clear from the application how this antenna 3 would be able to detect a multi-bit magnetic tag since the antenna 3 is not capable of detecting a stationary magnetic field. In addition, to be able to read such a multi-bit magnetic tag, it is normally necessary to provide relative movement between the tag and the sensor. No such means for providing relative movement are disclosed in the present application. In any case, it is very doubtfully whether a magnetic tag attached to the item 7 in the way illustrated in Fig 1 would be readable in any manner, since magnetic reading of the data bits usually requires close proximity between the magnetic material of the tag and the sensor. For these reasons, the description does not disclose the invention defined by claim 3 in a manner sufficiently clear and complete for it to be carried out by a person skilled in the art. Hence, the requirements of Articles 5 and 6 PCT are not met in so far as claim 3 is concerned. Consequently, no opinion with regard to novelty, inventive step and industrial applicability can be made with regard to claim 3.
- 1.1 It seems that claim 3 should be deleted.

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:

D1 = WO-A-97 39 398

D2 = WO-A-99 05 660

- 2. D1 discloses (cf Fig 1 and the corresponding text in the description) a storage system useful in merchandising and inventory control. The system comprises a central computer 2, a plurality of shelves (not shown) for storing items (not shown) and a plurality of electronic shelf labels 7. The central computer 2 communicates with the shelf labels 7 via IR transceivers 4. The shelf label in Fig 4A comprises a CPU 40, a wireless transceiver 21, a price register 44, and a screen 22 for displaying the price of the items on a shelf. The shelf label in Fig 4A also stores a product ID which corresponds to the items stored on the shelf. In use, the user employs the portable unit 6 (cf Fig 1) to read the product ID stored in the electronic shelf label (cf Fig 9) so as to sum-up the items placed in a shopping cart. The aim of the system in D1 is to avoid time consuming scanning of the selected items at the check-out. Inventory control can be performed using the portable unit 6 (cf Fig 11). The shelf label is read and the quantity to order is manually entered into the portable unit 6 and then uploaded to the central computer.
- 2.1 Although it is noted that D1 does not use items having transponders and does not comprise shelves having sensors for reading these transponders, claim 1 is drafted in such broad terms (because of the word "associated") that it can be read onto the storage system of D1. In claim 1, the supports, the items and the data processing unit correspond to the shelves, the products on the shelves and the central computer 2 in D1. In addition, the shelves (supports) in D1 are associated (functionally in conjunction) with the portable unit 6 (which has a sensor 21, cf Fig 4A) to detect the presence of electronic shelf label transponders 7 associated with items stored on the shelves (supports). The information read from the electronic shelf label transponders 7 is read by the portable unit 6 and transmitted to the central computer 2. Hence, the subject-matter of claim 1 lacks novelty and therefore the requirements of Articles 33(2) and 33(3) PCT are not met.
- 2.2 The dependent claims 2,4-11 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step. For example, the electronic shelf labels 7 in D1 store the product ID and use a wireless transceiver 21. Hence, the labels 7 are RFID tags and the portable units 6 receive signals from these tags. The shelf labels of D1 have displays 22, and the storage system of D1 clearly has

shelves. Furthermore, an inventory control system is shown in Fig 11 of D1. In addition, the central computer stores a stock control database (cf step 97 in Fig 11). Hence, it follows that the features of claims 2,4-7 are known from D1. The feature of claim 8 is a standard feature of a stock control database. Moreover, the system of D1 is capable of updating the price on the screen 21 of a label 7 by sending a message via the transponders 4. Hence, the features of claim 9 are not new. The features added by claims 10 and 11 are considered to be obvious features of an inventory system of the type illustrated in D1.

- 3. D2 discloses an article inventory system for a library. Each article (e.g. a book) stored in the system is provided with a RFID tag. Fig 9 shows a shelf scanning inventory system 120 for the library (cf page 35, line 22 to page 38, line 10). The articles 22 with their RFID tags are stored on shelves 124. A portable RFID scanner 42 reads the ID from each tag and stores the information in the portable computer 122. The read information is transmitted to the computer 48 for updating the database 66. This system allows missing or mislocated articles to be identified (cf page 37, lines 16 and 25).
- 3.1 Although it is noted that D2 does not comprise shelves having sensors for reading the RFID transponders, claim 1 is drafted in such broad terms (because of the word "associated") that it can be read onto D2. In claim 1, the supports, the transponders, the items and the data processing unit correspond to the shelves 124, the RFID tags 54, the books on the shelves and the computer 48 in D2. In addition, the shelves (supports) in D2 are associated (functionally in conjunction) with the portable RFID scanner 42 (which has a sensor) to detect the presence of RFID transponders attached to the items (books) stored on the shelves (supports). The information stored in the RFID transponders 54 is read by the portable RFID scanner 42 and transmitted to the computer 48. Hence, the subject-matter of claim 1 lacks novelty and therefore the requirements of Articles 33(2) and 33(3) PCT are not met.
- 3.2 Furthermore, the features added by claims 2,5-7,10 are also known from D2 (cf paragraph 3 above).
- 4. To distance the storage system of this application from the systems in D1 and D2,

it would be appropriate to amend claim 1 so that the sensors (antennas 3) are formed in the supports (shelves 1) and the transponders 6 are attached to the items 7. This arrangement allows stock control to be performed without use of personnel. Neither D1 nor D2 suggests providing sensors in the supports (shelves) for reading information from the transponders attached to the items.

Re Item VII

Certain defects in the international application

- Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art 1. disclosed in the documents D1,D2 is not mentioned in the description, nor are these documents identified therein.
- 1.1 On filing new claims, the description (cf pages 1-2) would have to be brought into conformity with these new claims as required by Rule 5.1(a)(iii) PCT.
- 1.2 The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
- 1.3 Contrary to the requirements of Rule 6.3(b) PCT, the independent claim 1 is not properly cast in the two-part form.

Re Item VIII

Certain observations on the international application

The feature following the expression "for example" (cf last two lines of claim 1) 1. has no limiting effect on the scope of the claim (cf Guidelines PCT/GL/3, 4.6). Hence, it would be appropriate to replace the words "for example a data processing unit" (cf last two lines of claim 1) by "processing means".

PCT

(30) Priority Data:

99303314.1





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(51) International Patent Classification 7:

G06K 17/00

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(71) Applicant (for all designated States except US): THE PROC-

28 April 1999 (28.04.99)

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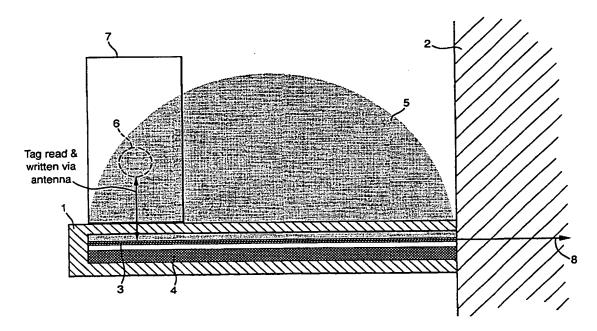
(72) Inventor; and
(75) Inventor/Applicant (for US only): ASHTON, Kevin, John [GB/GB]; 8 St. Giles Road, London SE5 7RL (GB).

(74) Agents: REED, T., David et al.; The Procter & Gamble Company, 5299 Spring Grove Avenue, Cincinnati, OH 45217-1087 (US). (81) Designated States: AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), DM, EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

(54) Title: STORAGE SYSTEM



(57) Abstract

A storage system has one or more supports, for example, shelves (1) and, one or more sensors (3) which are arranged to detect the presence of transponders (6) associated with items (7) to be stored on the shelves. Information can thus be from the transponders, and transmitted to, for example, a data processing unit.

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intens on Application No PCT/US 00/11304

A. CLASSII IPC 7	FICATION OF SUBJECT MATTER G06K17/00		
According to	o International Patent Classification (IPC) or to both national class	ification and IPC	
	SEARCHED		
Minimum do IPC 7	ocumentation searched (classification system followed by classific ${\sf G06K}$	ation symbols:	
Documentat	tion searched other than minimum documentation to the extent tha	at such documents are included in the fields so	earched
Electronic d	ata base consulted during the international search (name of data	base and, where practical, search terms used	1)
EPO-In	ternal, WPI Data, PAJ, IBM-TDB, IN	SPEC	
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.
X	WO 97 39398 A (ELDAT COMMUNICAT 23 October 1997 (1997-10-23) the whole document	ION LTD)	1-11
x	WO 99 05660 A (CHECKPOINT SYSTE	MS INC)	1-3,6-8,
Υ	4 February 1999 (1999-02-04) column 14, line 3 -column 44, l figures 1-12	ine 19;	10,11 4,5,9
Υ	US 5 548 282 A (ESCRITT CHRIS 20 August 1996 (1996-08-20) column 7, line 26 -column 10, l figures 1-18		4,5,9
		Patent family members are listed	lin annex
	her documents are listed in the continuation of box C.	X Patent ramily members are listed	
"A" docume consider affiling of "L" docume which citation "O" docume other "P" docume "P	ent defining the general state of the art which is not be defining the general state of the art which is not be defined to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another in or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but than the priority date claimed	"T" later document published after the into or priority date and not in conflict with cited to understand the principle or the invention of the cannot be considered novel or cannot involve an inventive step when the decannot be considered to involve an inventive step when the decannot be considered to involve an indocument is combined with one or ments, such combination being obvious in the art. "&" document member of the same patents."	n the application but heeory underlying the claimed invention at be considered to ocument is taken alone claimed invention inventive step when the ore other such docupous to a person skilled
	actual completion of the international search	Date of mailing of the international se	
1	1 July 2000	18/07/2000	
Name and r	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Authorized officer Degraeve, A	

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Interaction No PCT/US 00/11304

Patent document cited in search report	:	Publication date	١	Patent family member(s)	Publication date
WO 9739398	Α	23-10-1997	AU EP	2175997 A 0954806 A	07-11-1997 10-11-1999
WO 9905660	Α	04-02-1999	US AU EP	5963134 A 8486598 A 0996941 A	05-10-1999 16-02-1999 03-05-2000
US 5548282	A	20-08-1996	AT AU AU DE EP JP	171553 T 666263 B 6182594 A 59406948 D 0623873 A 7143042 A	15-10-1998 01-02-1996 10-11-1994 29-10-1998 09-11-1994 02-06-1995